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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/618,113	07/11/2003		Rajeev Joshi	11948.21	8697	
27966	7590	11/22/2006		EXAMINER		
KENNETH			ZARNEKE, DAVID A			
KIRTON & 60 EAST SO				ART UNIT	PAPER NUMBER	
SUITE 1800				2891		
SALTLAKE CITY, UT 84111				DATE MAÎLED: 11/22/2000	DATE MAÎLED: 11/22/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	10/618,113	JOSHI ET AL.
Office Action Summary	Examiner	Art Unit
	David A. Zarneke	2891
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on 12 Second 2a) ☐ This action is <b>FINAL</b> . 2b) ☐ This Since this application is in condition for allowant closed in accordance with the practice under Expression 2.	action is non-final. ace except for formal matters, pro	
Disposition of Claims		
4) □ Claim(s) 20-48 is/are pending in the application 4a) Of the above claim(s) is/are withdraw 5) □ Claim(s) is/are allowed. 6) □ Claim(s) 20-48 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or Application Papers  9) □ The specification is objected to by the Examiner 10) □ The drawing(s) filed on is/are: a) □ access Applicant may not request that any objection to the ore Replacement drawing sheet(s) including the correction in the oreal contents of the content	election requirement.  r.  epted or b) objected to by the Edrawing(s) be held in abeyance. See ion is required if the drawing(s) is objected to by the legan is required if the drawing(s) is objected to by the legan is required if the drawing(s) is objected to by the legan is required if the drawing(s) is objected to by the legan is required if the drawing(s) is objected to by the legan is required if the drawing(s) is objected to by the legan is required if the drawing(s) is objected to by the legan is required if the drawing(s) is objected to by the legan is required if the drawing(s) is objected to by the legan is required if the drawing(s) is objected to by the legan is required if the drawing(s) is objected to by the legan is required if the drawing(s) is objected to by the legan is required in the drawing(s) is objected to by the legan is required in the drawing(s) is objected to by the legan is required in the drawing(s) is objected to by the legan is required in the drawing(s) is objected to by the legan is required in the drawing(s) is objected to by the legan is required in the drawing(s) is objected to by the legan is required in the drawing(s) is objected to by the legan is required in the drawing(s) is objected to by the legan is required in the drawing(s) is objected to by the legan is required in the drawing(s) is objected to by the legan is required in the drawing(s) is objected to by the legan is required in the legan is required i	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119	·	
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Applicati ity documents have been receive (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	

Art Unit: 2891

## **DETAILED ACTION**

### Response to Arguments

Applicant's arguments filed 9/12/06 have been fully considered but they are not persuasive.

First, it is argued that the elimination of the UBM from the pad is not legally or technically supported. That it hasn't been substantiated that a skilled artisan, not the examiner, considers whether the function of the UBM is required to make the pad operate. This is because it would not have been obvious to remove the UBM it improves the wettability and adhesion of the pad to the solder ball.

Please note that the rejection is that the UBM can be removed from the pad without any loss of function and that the UBM is not desired or required. The rejection states that the UBM is not required to make the pad operate. An electrical pad can operate without a UBM. While the UBM may make the pad operate better, as noted in the response, the pad can operate without the UBM nonetheless.

The second argument is that the combination of Higgins and Chakravorty would only increase the thickness, complexity and cost of the process of making the package.

Please note that Chakravorty lists many benefits of using this configuration. It states that not only is the package more compact, but lowers inductance, eliminates processing steps, uses fewer materials and therefore reduces costs (4, 41+ & 5, 63+). The fact that applicant has attacked one of these benefits, doesn't mean that it would have not been obvious to use this configuration in Higgins.

Art Unit: 2891

The third and final argument is that a skilled artisan would not have used an additional solder ball in the configuration of Higgins.

Please note that the invention of Chakravorty proves otherwise. Chakravorty provides many and varied reasons why a skilled artisan would use, and benefit from, this configuration (4, 41+ & 5, 63+).

For the reasons provided above in response to the arguments presented and for the reasons stated in the rejection of the previous office action, and re-stated below, the claims stand as finally rejection.

### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of

Art Unit: 2891

the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 20, 22 and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Higgins, III, US Patent 6,294,405 (hereafter Higgins).

Higgins (Figure 1) teaches a method of making a wafer-level chip scale package, comprising:

providing a chip pad (14) over a substrate (11);

providing a re-distributed line (RDL) pattern (16) on the chip pad;

providing an insulating layer (18) covering a portion of the RDL pattern, wherein the insulating layer comprises a non-polymeric dielectric material (2, 65+); and

providing a stud bump (20) directly on the portion of the RDL pattern not covered by the insulating layer.

Regarding the bump being "directly" on the RDL, Higgins discloses the claimed invention except for the inclusion of a UBM pad. It would have been obvious to one of ordinary skill in the art at the time of the invention to omit the UBM pad since it has been held that the omission of an element and its function in a combination where the remaining elements perform the same functions as before involves only routine skill in the art (*In re* Karlson, 136 USPQ 1284).

Art Unit: 2891

The invention of Higgins would still operate without the UBM pad. Its exclusion from Higgins, along with the function of the UBM layer, would not make the invention inoperable and would have been well-known and readily obvious to one of ordinary skill in the art.

Regarding claim 22, Higgins teaches the insulating layer comprises SiN (2, 65+).

With respect to claim 23, as noted above, while Higgins teaches using a UBM, it would have been obvious to one of ordinary skill in the art at the time of the invention to omit the UBM pad since it has been held that the omission of an element and its function in a combination where the remaining elements perform the same functions as before involves only routine skill in the art (*In re* Karlson, 136 USPQ 1284).

The invention of Higgins would still operate without the UBM pad. Its exclusion from Higgins, along with the function of the UBM layer, would not make the invention inoperable and would have been well known and readily obvious to one of ordinary skill in the art.

Claims 24, and 26-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Higgins, III, US Patent 6,294,405 (hereafter Higgins).

Higgins (Figure 1) teaches a method of making a wafer-level chip scale package, comprising:

providing a substrate (11) with a passivation layer (12) on a portion thereof; forming a chip pad (14) on a portion of the substrate not containing the passivation layer;

forming a metal layer (16) on the chip pad and a portion of the passivation layer;

Art Unit: 2891

forming an insulating layer (18) on a portion of the metal layer, wherein the insulating layer comprises a non-polymeric dielectric material (2, 65+); and

forming a stud bump (20) directly on the portion of the metal layer not covered by the insulating layer.

Regarding the bump being "directly" on the RDL, it would have been obvious to one of ordinary skill in the art at the time of the invention to omit the UBM pad since it has been held that the omission of an element and its function in a combination where the remaining elements perform the same functions as before involves only routine skill in the art (*In re* Karlson, 136 USPQ 1284).

The invention of Higgins would still operate without the UBM pad. Its exclusion from Higgins, along with the function of the UBM layer, would not make the invention inoperable and would have been well known and readily obvious to one of ordinary skill in the art.

Regarding claim 26, Higgins teaches the insulating layer comprises SiN (2, 65+).

With respect to claims 27, while Higgins fails to expressly state that the insulating layer is formed without using a high temperature curing process, SiN inherently uses a low temperature curing process.

With respect to claim 28, as noted above, while Higgins teaches using a UBM, it would have been obvious to one of ordinary skill in the art at the time of the invention to omit the UBM pad since it has been held that the omission of an element and its function in a combination where the remaining elements perform the same functions as before involves only routine skill in the art (*In re* Karlson, 136 USPQ 1284).

Art Unit: 2891

The invention of Higgins would still operate without the UBM pad. Its exclusion from Higgins, along with the function of the UBM layer, would not make the invention inoperable and would have been well known and readily obvious to one of ordinary skill in the art.

Claim 32 is rejected under 35 U.S.C. 103(a) as being unpatentable over Higgins, III, US Patent 6,294,405 (hereafter Higgins).

Higgins (Figure 1) teaches a method of making a package semiconductor device, comprising:

providing a chip pad (14) over a substrate (11);

providing a re-distributed line (RDL) pattern (16) on the chip pad;

providing an insulating layer (18) covering a portion of the RDL pattern, wherein the insulating layer comprises a non-polymeric dielectric material (2, 65+); and

providing a stud bump (20) directly on the portion of the RDL pattern not covered by the insulating layer.

Regarding the bump being "directly" on the RDL, It would have been obvious to one of ordinary skill in the art at the time of the invention to omit the UBM pad since it has been held that the omission of an element and its function in a combination where the remaining elements perform the same functions as before involves only routine skill in the art (*In re* Karlson, 136 USPQ 1284).

The invention of Higgins would still operate without the UBM pad. Its exclusion from Higgins, along with the function of the UBM layer, would not make the invention

Art Unit: 2891

inoperable and would have been well known and readily obvious to one of ordinary skill in the art.

Claim 33 is rejected under 35 U.S.C. 103(a) as being unpatentable over Higgins, III, US Patent 6,294,405 (hereafter Higgins).

Higgins (Figure 1) teaches a method of making a wafer-level chip scale package, comprising:

providing a packaged semiconductor device (10) containing a chip pad (14) over a substrate (11), a re-distributed line (RDL) pattern (16) on the chip pad, an insulating layer (18) covering a portion of the RDL pattern with the insulating layer comprising a non-polymeric dielectric material (2, 65+), and then providing a stud bump (20) directly on the portion of the RDL pattern not covered by the insulating layer; and

mounting the packaged semiconductor device on a circuit board (50).

Regarding the bump being "directly" on the RDL, It would have been obvious to one of ordinary skill in the art at the time of the invention to omit the UBM pad since it has been held that the omission of an element and its function in a combination where the remaining elements perform the same functions as before involves only routine skill in the art (*In re* Karlson, 136 USPQ 1284).

The invention of Higgins would still operate without the UBM pad. Its exclusion from Higgins, along with the function of the UBM layer, would not make the invention inoperable and would have been well known and readily obvious to one of ordinary skill in the art.

Art Unit: 2891

Claims 34, 38-40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Higgins, III, US Patent 6,294,405 (hereafter Higgins).

Higgins (figure 1) teaches a method for making wafer-level chip scale package, comprising:

providing a chip pad [12] over a substrate [11];

providing a re-distributed line (RDL) pattern [16] on the chip pad;

providing an insulating layer [18] covering a portion of the RDL pattern; and

providing a stud bump [20] on the portion of the RDL pattern not covered by the insulating layer without using an under bump metal.

Higgins discloses the claimed invention except for the inclusion of a UBM pad. It would have been obvious to one of ordinary skill in the art at the time of the invention to omit the UBM pad since it has been held that the omission of an element and its function in a combination where the remaining elements perform the same functions as before involves only routine skill in the art (*In re* Karlson, 136 USPQ 1284).

The invention of Higgins would still operate without the UBM pad. Its exclusion from Higgins, along with the function of the UBM layer, would not make the invention inoperable and would have been well-known and readily obvious to one of ordinary skill in the art.

Regarding claims 38-40, Higgins teaches the insulating layer [18] comprises a non-polymeric dielectric material, such as silicon nitride (2, 65+), which does not require a high temperature curing process.

Claims 41, 45-47 are rejected under 35 U.S.C. 103(a) as being unpatentable over Higgins, III, US Patent 6,294,405 (hereafter Higgins).

Higgins (figure 1) teaches a method for making wafer-level chip scale package, comprising:

providing a chip pad [12] over a substrate [11];

providing a single layer re-distributed line (RDL) pattern [16] on the chip pad;

providing an insulating layer [18] covering a portion of the RDL pattern; and

providing a stud bump [20] on the portion of the RDL pattern not covered by the insulating layer.

Regarding the bump being "directly" on the RDL, It would have been obvious to one of ordinary skill in the art at the time of the invention to omit the UBM pad since it has been held that the omission of an element and its function in a combination where the remaining elements perform the same functions as before involves only routine skill in the art (*In re* Karlson, 136 USPQ 1284).

The invention of Higgins would still operate without the UBM pad. Its exclusion from Higgins, along with the function of the UBM layer, would not make the invention inoperable and would have been well known and readily obvious to one of ordinary skill in the art.

Regarding claims 45-47, Higgins teaches the insulating layer [18] comprises a non-polymeric dielectric material, such as silicon nitride (2, 65+), which does not require a high temperature curing process.

Art Unit: 2891

Claim 21 is rejected under 35 U.S.C. 103(a) as being unpatentable over Higgins, III, US Patent 6,294,405, as applied to claim 20 above, and further in view of Chakravorty, US Patent 6,350,668.

Higgins fails to teach the method further comprising providing a solder ball on the stud bump.

Chakravorty (figure 8d) teaches the use of a solder ball (313) on a solder stud (311).

It would have been obvious to one of ordinary skill in the art at the time of the invention to use the ball on the stud of Chakravorty in the invention of Higgins because both methods are known equivalent techniques used to attach chips to other substrates.

The substitution of one known equivalent technique for another may be obvious even if the prior art does not expressly suggest the substitution (Ex parte Novak 16 USPQ 2d 2041 (BPAI 1989); In re Mostovych 144 USPQ 38 (CCPA 1964); In re Leshin 125 USPQ 416 (CCPA 1960); Graver Tank & Manufacturing Co. V. Linde Air Products Co. 85 USPQ 328 (USSC 1950).

Claims 25 and 29-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Higgins, III, US Patent 6,294,405, as applied to claim 24 above, and further in view of Chakravorty, US Patent 6,350,668.

Regarding claim 25, Higgins fails to teach the method further comprising providing a solder ball on the stud bump.

Chakravorty (figure 8d) teaches the use of a solder ball (313) on a solder stud (311).

It would have been obvious to one of ordinary skill in the art at the time of the invention to use the ball on the stud of Chakravorty in the invention of Higgins because both methods are known equivalent techniques used to attach chips to other substrates.

The substitution of one known equivalent technique for another may be obvious even if the prior art does not expressly suggest the substitution (Ex parte Novak 16 USPQ 2d 2041 (BPAI 1989); In re Mostovych 144 USPQ 38 (CCPA 1964); In re Leshin 125 USPQ 416 (CCPA 1960); Graver Tank & Manufacturing Co. V. Linde Air Products Co. 85 USPQ 328 (USSC 1950).

With respect to claims 29 and 30, Higgins fails to teach forming the stud bump by electroplating or by wire bonding (claims 29), wherein the stud bump is formed by wire bonding a Pd coated copper wire to the RDL pattern using a capillary (claim 30).

Chakravorty teaches the solder stud (311) can be formed using a wire bonder (9, 16+).

It would have been obvious to one of ordinary skill in the art at the time of the invention to use the wire bonder of Chakravorty in the invention of Higgins because wire bonding is a known equivalent technique used to deposit metals.

The substitution of one known equivalent technique for another may be obvious even if the prior art does not expressly suggest the substitution (Ex parte Novak 16 USPQ 2d 2041 (BPAI 1989); In re Mostovych 144 USPQ 38 (CCPA 1964); In re Leshin 125 USPQ 416 (CCPA 1960); Graver Tank & Manufacturing Co. V. Linde Air Products Co. 85 USPQ 328 (USSC 1950).

Art Unit: 2891

Though Chakravorty fails to teach the use of a Pd coated copper wire, it would have been obvious to use a Pd coated copper wire because it is a conventionally known in the art material used to form stud bumps.

The use of conventional materials to perform there known functions in a conventional process is obvious (MPEP 2144.07).

As to claim 31, the stud bump being coined shaped is an obvious matter of design choice. Design choices and changes of size and shape are generally recognized as being within the level of ordinary skill in the art (MPEP 2144.04(I), (IVA) & (IVB)).

Claims 35-37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Higgins, III, US Patent 6,294,405, as applied to claim 34 above, and further in view of Chakravorty, US Patent 6,350,668.

Regarding claim 35, Higgins fails to teach the method further comprising providing a solder ball on the stud bump.

Chakravorty (figure 8d) teaches the use of a solder ball (313) on a solder stud (311).

It would have been obvious to one of ordinary skill in the art at the time of the invention to use the ball on the stud of Chakravorty in the invention of Higgins because both methods are known equivalent techniques used to attach chips to other substrates.

The substitution of one known equivalent technique for another may be obvious even if the prior art does not expressly suggest the substitution (Ex parte Novak 16 USPQ 2d 2041 (BPAI 1989); In re Mostovych 144 USPQ 38 (CCPA 1964); In re Leshin

Art Unit: 2891

125 USPQ 416 (CCPA 1960); Graver Tank & Manufacturing Co. V. Linde Air Products Co. 85 USPQ 328 (USSC 1950).

With respect to claims 36 and 37, Higgins fails to teach forming the stud bump by electroplating or by wire bonding (claims 29), wherein the stud bump is formed by wire bonding a Pd coated copper wire to the RDL pattern using a capillary (claim 30).

Chakravorty teaches the solder stud (311) can be formed using a wire bonder (9, 16+).

It would have been obvious to one of ordinary skill in the art at the time of the invention to use the wire bonder of Chakravorty in the invention of Higgins because wire bonding is a known equivalent technique used to deposit metals.

The substitution of one known equivalent technique for another may be obvious even if the prior art does not expressly suggest the substitution (Ex parte Novak 16 USPQ 2d 2041 (BPAI 1989); In re Mostovych 144 USPQ 38 (CCPA 1964); In re Leshin 125 USPQ 416 (CCPA 1960); Graver Tank & Manufacturing Co. V. Linde Air Products Co. 85 USPQ 328 (USSC 1950).

Though Chakravorty fails to teach the use of a Pd coated copper wire, it would have been obvious to use a Pd coated copper wire because it is a conventionally known in the art material used to form stud bumps.

The use of conventional materials to perform there known functions in a conventional process is obvious (MPEP 2144.07).

Art Unit: 2891

Claims 42-44 are rejected under 35 U.S.C. 103(a) as being unpatentable over Higgins, III, US Patent 6,294,405, as applied to claim 41 above, and further in view of Chakravorty, US Patent 6,350,668.

Regarding claim 35, Higgins fails to teach the method further comprising providing a solder ball on the stud bump.

Chakravorty (figure 8d) teaches the use of a solder ball (313) on a solder stud (311).

It would have been obvious to one of ordinary skill in the art at the time of the invention to use the ball on the stud of Chakravorty in the invention of Higgins because both methods are known equivalent techniques used to attach chips to other substrates.

The substitution of one known equivalent technique for another may be obvious even if the prior art does not expressly suggest the substitution (Ex parte Novak 16 USPQ 2d 2041 (BPAI 1989); In re Mostovych 144 USPQ 38 (CCPA 1964); In re Leshin 125 USPQ 416 (CCPA 1960); Graver Tank & Manufacturing Co. V. Linde Air Products Co. 85 USPQ 328 (USSC 1950).

With respect to claims 36 and 37, Higgins fails to teach forming the stud bump by electroplating or by wire bonding (claims 29), wherein the stud bump is formed by wire bonding a Pd coated copper wire to the RDL pattern using a capillary (claim 30).

Chakravorty teaches the solder stud (311) can be formed using a wire bonder (9, 16+).

Art Unit: 2891

It would have been obvious to one of ordinary skill in the art at the time of the invention to use the wire bonder of Chakravorty in the invention of Higgins because wire bonding is a known equivalent technique used to deposit metals.

The substitution of one known equivalent technique for another may be obvious even if the prior art does not expressly suggest the substitution (Ex parte Novak 16 USPQ 2d 2041 (BPAI 1989); In re Mostovych 144 USPQ 38 (CCPA 1964); In re Leshin 125 USPQ 416 (CCPA 1960); Graver Tank & Manufacturing Co. V. Linde Air Products Co. 85 USPQ 328 (USSC 1950).

Though Chakravorty fails to teach the use of a Pd coated copper wire, it would have been obvious to use a Pd coated copper wire because it is a conventionally known in the art material used to form stud bumps.

The use of conventional materials to perform there known functions in a conventional process is obvious (MPEP 2144.07).

Claim 48 is rejected under 35 U.S.C. 103(a) as being unpatentable over Higgins, III, US Patent 6,294,405 (hereafter Higgins), in view of Chakravorty, US Patent 6,350,668.

Higgins (figure 1) teaches a method for making wafer-level chip scale package, comprising:

providing a chip pad [12] over a substrate [11];

providing a re-distributed line (RDL) pattern [16] on the chip pad without using an under bump metal;

providing an insulating layer [18] covering a portion of the RDL pattern; and

Art Unit: 2891

providing a stud bump [20] on the portion of the RDL pattern not covered by the insulating layer without using an under bump metal.

Higgins discloses the claimed invention except for the inclusion of a UBM pad. It would have been obvious to one of ordinary skill in the art at the time of the invention to omit the UBM pad since it has been held that the omission of an element and its function in a combination where the remaining elements perform the same functions as before involves only routine skill in the art (*In re* Karlson, 136 USPQ 1284).

The invention of Higgins would still operate without the UBM pad. Its exclusion from Higgins, along with the function of the UBM layer, would not make the invention inoperable and would have been well-known and readily obvious to one of ordinary skill in the art.

Higgins fails to teach the method further comprising providing a solder ball on the stud bump.

Chakravorty (figure 8d) teaches the use of a solder ball (313) on a solder stud (311).

It would have been obvious to one of ordinary skill in the art at the time of the invention to use the ball on the stud of Chakravorty in the invention of Higgins because both methods are known equivalent techniques used to attach chips to other substrates.

The substitution of one known equivalent technique for another may be obvious even if the prior art does not expressly suggest the substitution (Ex parte Novak 16 USPQ 2d 2041 (BPAI 1989); In re Mostovych 144 USPQ 38 (CCPA 1964); In re Leshin

125 USPQ 416 (CCPA 1960); Graver Tank & Manufacturing Co. V. Linde Air Products

Co. 85 USPQ 328 (USSC 1950).

#### Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David A. Zarneke whose telephone number is (571)-272-1937. The examiner can normally be reached on M-Th 7:30 AM-6 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Baumeister can be reached on (571)-272-1722. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2891

Page 19

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Dávid A. Zarneke⁄ Primary Examiner

November 13, 2006